

PATENT ABSTRACTS OF JAPAN

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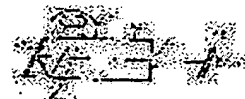
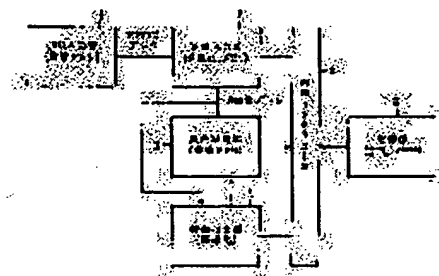
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(54) FINGERPRINT PICTURE REGISTERING SYSTEM

(57)Abstract:

PURPOSE: To improve fingerprint collation rate by excluding the small part of low quality such as a bridge generated due to sweat in a fingerprint ridgeline part in a fingerprint picture from the selected object of dictionary data when a fingerprint dictionary is generated.

CONSTITUTION: A fingerprint input part 1 receives the ridgeline part of a fingerprint by a CCD element 45 through a glass plate 43 and a lens 44, and outputs analog data. A picture input part 2 is provided with a binarization circuit and a binary memory, and binarizes and stores the analog data of the fingerprint in the memory. Then, a collation circuit part 3 is provided with a collation circuit and a dictionary memory, and stores the fingerprint registered before in the dictionary memory, and the collation circuit compares and collates inputted binary data and the contents of the dictionary memory with each other. At that time, the fingerprint picture detected by a fingerprint sensor is divided into plural small areas, and when the small area containing a feature point and brighter than a prescribed threshold is detected in the fingerprint picture, the picture data of the bright small area is excluded from the generation of the fingerprint dictionary. Thus, the collation rate can be improved.



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